

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/810,836

DATE: 03/30/2001

TIME: 15:09:46

Input Set : A:\MBI0032.txt



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	21	<223	3> 07	THER	INF	ORMAT	ION:	G99	93									
				EQUE														
	25	caaa	at at	ig ga	aa ta	ac ag	je to	gt gt	ta ga	ac ga	ac ag	gt ag	jt ac	ca ac	eg to	ca ga	a tct	50
	26		Me	et Gl	lu Ty	r Se	er Cy	ys Va	al As	sp As	sp Se	er Se	er Th	ır Th	ır Se	er Gl	u Ser	
	27		1				5					10					15	
	29	ctc	tcc	atc	tct	act	act	cca	aag	ccg	aca	acg	acg	acg	gag	aag	aaa	98
	30	Leu	Ser	Ile	Ser	Thr	Thr	${\tt Pro}$	Lys	Pro	Thr	Thr	Thr	Thr	Glu	Lys	Lys	
	31					20					25					30		
	33	ctc	tct	tct	ccg	ccg	gcg	acg	tcg	atg	cgt	ctc	tac	aga	atg	gga	agc	146
	34	Leu	Ser	Ser	Pro	Pro	Ala	Thr	Ser	Met	Arg	Leu	Tyr	Arg	Met	Gly	Ser	
	35				35					40					45			
	37	ggc	gga	agc	agc	gtc	gtt	ttg	gat	tca	gag	aac	ggc	gtc	gag	acc	gag	194
	38	Gly	Gly	Ser	Ser	Val	Val	Leu	Asp	Ser	Glu	Asn	Gly	Val	Glu	Thr	Glu	
	39			50					55					60				
	41	tca	cgt	aag	ctt	cct	tcg	tcg	aaa	tat	aaa	ggc	gtt	gtg	cct	cag	cct	242
	42	Ser	Arg	Lys	Leu	Pro	Ser	Ser	Lys	Tyr	Lys	Gly	Val	Val	Pro	Gln	Pro	
	43		65	_				70					75					
	45	aac	gga	aga	tgg	gga	gct	cag	att	tac	gag	aag	cat	cag	cga	gtt	tgg	290
	46	Asn	Gly	Arg	Trp	Gly	Āla	Gln	Ile	Tyr	Glu	Lys	His	Gln	Arg	Val	Trp	
		80	-	_	_	_	85					90					95	
	49	ctc	ggt	act	ttc	aac	gag	gaa	gaa	gaa	gct	gcg	tct	tct	tac	gac	atc	338
	50	Leu	Gly	Thr	Phe	Asn	Glu	Glu	Glu	Glu	Ala	Ala	Ser	Ser	Tyr	Asp	Ile	
	51		-			100					105					110		
	53	qcc	qtq	agg	aqa	ttc	cgc	ggc	cgc	gac	gcc	gtc	act	aac	ttc	aaa	tct	386
	54	Ála	Vaĺ	Arg	Arq	Phe	Arg	Gly	Arg	Asp	Ala	Val	Thr	Asn	Phe	Lys	Ser	
	55				115		_	-	_	120					125			
		caa	att	gat	qqa	aac	qac	qcc	qaa	tcg	gct	ttt	ctt	gac	gct	cat	tct	434
	58	Gln	Val	Asp	Gĺv	Asn	Asp	Ăla	Ğlu	Ser	Ăla	Phe	Leu	Asp	Ala	His	Ser	
	59			130	2		-		135					140				
		aaa	act		atc	ata	gat	atq		aqq	aaa	cac	act	tac	gcc	gat	gag	482
	62	Lvs	Ala	Glu	Ile	Val	Āsp	Met	Leu	Arg	Lys	His	Thr	Tyr	Ála	Āsp	Glu	
	63	-1-	145					150	-	,	•		155	-		_		
		ttt		caσ	aαt	aσa	caa		ttt	qtt	aac	qqc		qqa	aaa	cqc	tct	530
			549	9	~ 5 ~	- 5 -	- 23			,		- ر ر		٠- ر د		,		

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66 Phe Glu Gln Ser Arg Arg Lys Phe Val Asn Gly Asp Gly Lys Arg Ser	
67 160 165 170 175	
69 ggg ttg gag acg gcg acg tac gga aac gac gct gtt ttg aga gcg cgt	578
70 Gly Leu Glu Thr Ala Thr Tyr Gly Asn Asp Ala Val Leu Arg Ala Arg	
71 180 185 190	
73 gag gtt ttg ttc gag aag act gtt acg ccg agc gac gtc ggg aag ctg	626
74 Glu Val Leu Phe Glu Lys Thr Val Thr Pro Ser Asp Val Gly Lys Leu	
75 195 200 205	
77 aac cgt tta gtg ata ccg aaa caa cac gcg gag aag cat ttt ccg tta	674
78 Asn Arg Leu Val Ile Pro Lys Gln His Ala Glu Lys His Phe Pro Leu	
79 210 215 220	
81 ccg gcg atg acg acg gcg atg ggg atg aat ccg tct ccg acg aaa ggc	722
82 Pro Ala Met Thr Thr Ala Met Gly Met Asn Pro Ser Pro Thr Lys Gly	
83 225 230 235	
85 gtt ttg att aac ttg gaa gat aga aca ggg aaa gtg tgg cgg ttc cgt	770
86 Val Leu Ile Asn Leu Glu Asp Arg Thr Gly Lys Val Trp Arg Phe Arg	
87 240 245 250 255	
89 tac agt tac tgg aac agc agt caa agt tac gtg ttg acc aag ggc tgg	818
90 Tyr Ser Tyr Trp Asn Ser Ser Gln Ser Tyr Val Leu Thr Lys Gly Trp	
91 260 265 270	
93 agc cgg ttc gtt aaa gag aag aat ctt cga gcc ggt gat gtg gtt tgt	866
94 Ser Arg Phe Val Lys Glu Lys Asn Leu Arg Ala Gly Asp Val Val Cys	
95 275 280 285	
97 ttc gag aga tca acc gga cca gac cgg caa ttg tat atc cac tgg aaa	914
98 Phe Glu Arg Ser Thr Gly Pro Asp Arg Gln Leu Tyr Ile His Trp Lys	
99 290 295 300	
101 gtc cgg tct agt ccg gtt cag act gtg gtt agg cta ttc gga gtc aac	962
102 Val Arg Ser Ser Pro Val Gln Thr Val Val Arg Leu Phe Gly Val Asn	
103 305 310 315	
105 att ttc aat gtg agt aac gag aaa cca aac gac gtc gca gta gag tgt	1010
106 Ile Phe Asn Val Ser Asn Glu Lys Pro Asn Asp Val Ala Val Glu Cys	
107 320 325 330 335	
109 gtt ggc aag aag aga tot ogg gaa gat gat ttg ttt tog tta ggg tgt	1058
110 Val Gly Lys Lys Arg Ser Arg Glu Asp Asp Leu Phe Ser Leu Gly Cys	
111 340 345 350	
113 tcc aag aag cag gcg att atc aac atc ttg tga caaattcttt ttttttggtt	1111
114 Ser Lys Lys Gln Ala Ile Ile Asn Ile Leu	
115 355 360	
117 tttttcttca atttgtttct cctttttcaa tattttgtat tgaaatgaca agttgtaaat	1171
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121 aaaaaaaa	1239
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129 <400> SEQUENCE: 2	
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132 1 5 10 15	
135 Ser Ile Ser Thr Thr Pro Lys Pro Thr Thr Thr Glu Lys Lys Leu	
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136				20					25					30		
	Ser	Ser	Pro	Pro	Ala	Thr	Ser	Met	Arg	Leu	Tyr	Arg	Met	Gly	Ser	Gly
140			35					40	_		-		45			
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144		50					55					60				
147	Arg	Lys	Leu	Pro	Ser	Ser	Lys	Tyr	Lys	Gly	Val	Val	Pro	Gln	Pro	Asn
148						70					75					80
151	Gly	Arg	${\tt Trp}$	Gly	Ala	Gln	Ile	Tyr	Glu	Lys	His	Gln	Arg	Val	${\tt Trp}$	Leu
152					85					90					95	
155	Gly	Thr	Phe	Asn	Glu	Glu	Glu	Glu		Ala	Ser	Ser	Tyr		Ile	Ala
156				100		_			105	_				110		
	Val	Arg	_	Phe	Arg	Gly	Arg		Ala	Val	Thr	Asn		Lys	Ser	GIn
160	~	_	115	_	_		a 1	120	- 1	-1	-		125	77.5 -	a	T
	Val		GIY	Asn	Asp	Ala		ser	Ата	Pne	Leu		Ата	HIS	ser	Lys
164	7 .1 ~	130	т1.	37.5.7	7 00	Mot	135	λrα	Two	ніс	Пhr	140	λl =	λcn	Clu	Dho
		GIU	тте	vaı	ASP	Met 150	Leu	ALG	гуу	птэ	155	тут	міа	кър	GIU	160
168		Cln	Cor	λrα	λκα	Lys	Dho	Val	λen	C1v		Gly	T.v.c	Δra	Ser	
172	GIU	GIII	Sei	AIG	165	цуз	FIIC	vai	ASII	170	АЗР	GLY	цуз	пту	175	O L J
	T.011	Glu	Thr	Δla		Tyr	Glv	Asn	Asp		Va l	Leu	Ara	Ala		Glu
176	пси	014	****	180		-1-			185				,	190	5	
	Val	Leu	Phe		Lvs	Thr	Val	Thr		Ser	Asp	Val	Gly	Lys	Leu	Asn
180			195		4			200			•		205	-		
183	Arg	Leu	Val	Ile	Pro	Lys	Gln	His	Ala	Glu	Lys	His	Phe	Pro	Leu	Pro
184	_	210					215					220				
187	Ala	Met	Thr	Thr	Ala	Met	Gly	Met	Asn	Pro	Ser	Pro	Thr	Lys	Gly	Val
188						230					235					240
	Leu	Ile	Asn	Leu		Asp	Arg	Thr	Gly		Val	Trp	Arg	Phe		Tyr
192					245		_			250			_		255	_
	Ser	\mathtt{Tyr}	Trp		Ser	Ser	Gln	Ser		Val	Leu	Thr	Lys		Trp	Ser
196	_	_,		260	a 1	_	_	-	265		a 1		77- 7	270	C	Dha
	Arg	Pne		гĀЗ	GIU	Lys	Asn	280	Arg	Ата	GIŸ	Asp	285	val	Cys	Pile
200	C111	7 20	275	Пhr	C117	Pro	λcn		Cln.	Lou	ጥ የፖለ	Tlo		Trn	T.vc	Val
203	GIU	290	ser	1111	СТУ	PIU	295	ALG	GIII	ьец	тут	300	птэ	тър	цуз	V U.I.
	Δra		Ser	Pro	Va 1	Gln		Va1	Va l	Ara	Leu		Glv	Val	Asn	Ile
208	_	UCI	001	110	, 42	310		, 42		9	315					320
		Asn	Val	Ser	Asn	Glu	Lys	Pro	Asn	Asp	Val	Ala	Val	Glu	Cys	Val
212					325					330					335	
215	Gly	Lys	Lys	Arg	Ser	Arg	Glu	Asp	Asp	Leu	Phe	Ser	Leu	Gly	Cys	Ser
216	_	_	_	340		_			345					350		
219	Lys	Lys	${\tt Gln}$	Ala	Ile	Ile	Asn	Ile	Leu							
220			355					360								
223	<210)> SI	EQ II	ON C	: 3											
				H: 12	226											
			PE:													
					Arak	oidor	sis	tha!	Llana	a.						
			EATUE		CDC											
229	< 22.	L> NE	AME/I	KEY:	CDS											



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231 234	<223 <40	3> 0: 0> si	THER EQUE	INFO	ORMA!	l)	: G18	345		raati	atas	224	- a+ +	702	-+	- at at a	60
						tg c								aag a		_	116
						aat Asn											164
246 247	His	Ser 20	Phe	Gly	Gly	gaa Glu	Ala 25	Ser	Ser	Thr	Ser	Pro 30	Arg	Ser	Met	Lys	212
	Lys					agt Ser 40											260
						gag Glu											308
						caa Gln											356
						atg Met											404
						cag Gln											452
270						agt Ser 120											500
		-	-	-		cct Pro			-	_	_	_		-			548
						gga Gly											596
						tgg Trp											644
						cgc Arg											692
289 290						gag Glu 200											740
293	gat					gat Asp					gaa					agc	788

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297 gag gtt aac ttg gag agc aag gaa cta ccg gtg att gat gtt ggg aga 298 Glu Val Asn Leu Glu Ser Lys Glu Leu Pro Val Ile Asp Val Gly Arg 299 230 235 240 235 240 235 240 235 240 235 240 235 240 235 240 235 240 235 250 245 250 255 255
299
301 gag gaa ggt atg gct gag gca tgg tac aat gcc att aca tcg gga tgg
302 Glu Glu Gly Met Ala Glu Ala Trp Tyr Asn Ala Ile Thr Ser Gly Trp 303
303
306 Gly Pro Glu Ser Pro Leu Trp Asp Asp Leu Asp Ser Ser His Gln Phe 307
307
309 tca tca gaa age tca tct tct tct cct ctc tct tgt cct atg agg cct 310 Ser Ser Glu Ser Ser Ser Ser Ser Pro Leu Ser Cys Pro Met Arg Pro 311 275 280 285 290 313 tc ttt tga aaaagtttat aaacccacat tgtgttgag gtatagttt 1029 314 Phe Phe 317 agggttatge tcattggcat ttggatggag gcaattttg tgateteea ttecaccaca 1089 319 tatcagtcat tatatgtgte tacettttet etgtatttet atcattatea ttgttttat 1149 321 tatggtctg tatggtgtte cetattgeta catacataga tgteetett gteaaaaaa 1209 323 aaaaaaaaaa aaaaaaaa
310 Ser Ser Glu Ser Ser Ser Ser Ser Ser Pro Leu Ser Cys Pro Met Arg Pro 311 275 280 285 290 313 ttc ttt tga aaaagttat aaacccacat tgtgttgtag gttatagtt 1029 314 Phe Phe 317 agggttatgc tcattggcat ttggatggag gcaatttttg tgatctccca ttccaccaca 1089 319 tatcagtcat tatatgtgtc tacctttct ctgatttct atcattatca ttgttttat 1149 321 tatgtgtctg tatgtgtttc cctattgcta catacataga tgtcctcttt gttcaaaaaa 1209 323 aaaaaaaaaaa aaaaaaa 3 1209 324 2210 SEQ ID NO: 4 327 <211> LENGTH: 292 328 <212> TYPE: PRT 329 <213> ORGANISM: Arabidopsis thaliana 331 <400> SEQUENCE: 4 333 Met Asp Phe Asp Glu Glu Leu Asn Leu Cys Ile Thr Lys Gly Lys Asn 331 <400> SEQUENCE: 4 333 Met Asp Phe Asp Glu Glu Glu Ala Ser Ser Thr Ser Pro Arg Ser 334 1 5 5 10 15 337 Val Asp His Ser Phe Gly Gly Glu Ala Ser Ser Thr Ser Pro Arg Ser 338 20 20 25 30 341 Met Lys Lys Met Lys Ser Pro Ser Arg Pro Lys Pro Tyr Phe Gln Ser 342 35 45 364 50 50 50 60 345 Thr Leu Gln Asn Gln Gln Gln Gln Gln Leu Gly Ser Tyr Val Pro Val Leu 350 65 70 70 75 80 351 Glu Gln Arg Gln Asp Pro Thr Met Gln Gly Gln Lys Gln Met Ile Ser 352 90 95 353 Phe Ser Pro Gln Gln Gln Gln Gln Gln Gln Gln Gln Tyr Met Ala Gln Tyr 358 100
311 275
313 ttc ttt tga aaaagtttat aaacccacat tgtgttgtag gttatagtt:
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334 1 5 10 15 15 337 Val Asp His Ser Phe Gly Gly Glu Ala Ser Ser Thr Ser Pro Arg Ser 341 Met Lys Lys Ser Pro Ser Arg Pro Lys Pro Tyr Phe Gln Ser 342 35 7 7 80 Fro Pro Lys Pro Tyr Phe Gln Ser Leu Arg Pro Pro Phe Ser Leu Asp Pro Pro Phe Ser Leu Asp Pro Pro Fro Phe Ser Leu Asp Pro Pro Fro Pro
337 Val Asp His Ser Phe Gly Gly Gly Ala Ser Ser Thr Ser Pro Arg Ser 30 30 341 Met Lys Lys Met Lys Ser Pro Ser Arg Pro Lys Pro Lys Pro Tyr Phe Gln Ser 35 40 40 40 45 45 35 45 40 45 36 40 40 45 36 40 40 45 36 40 40 45 36 40 40 45 36 40 40 40 40 40 40 40 40 40 40 40 40 40
338
341 Met Lys Lys Met Lys Ser Pro Ser Arg Pro Lys Pro Tyr Phe Gln Ser 40
342
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370 145 150 155 160
373 Pro Arg Ser Arg Ala Arg Leu Trp Leu Gly Thr Phe Asp Thr Ala Glu
374 165 170 175
377 Glu Ala Ala Met Ala Tyr Asp Arg Gln Ala Phe Lys Leu Arg Gly His
378 180 185 190



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VERIFICATION SUMMARY

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date